

FIG. 1

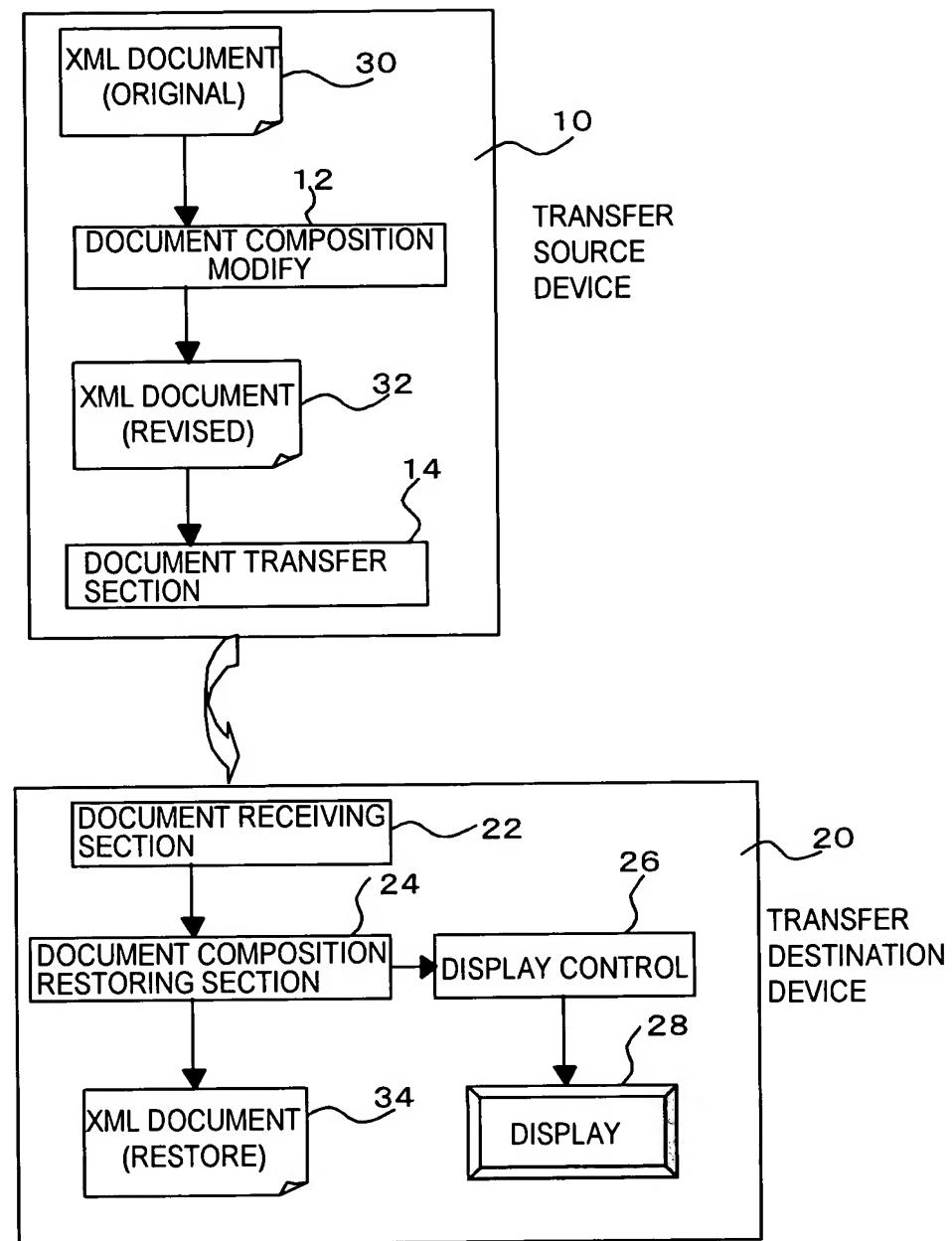


FIG. 2

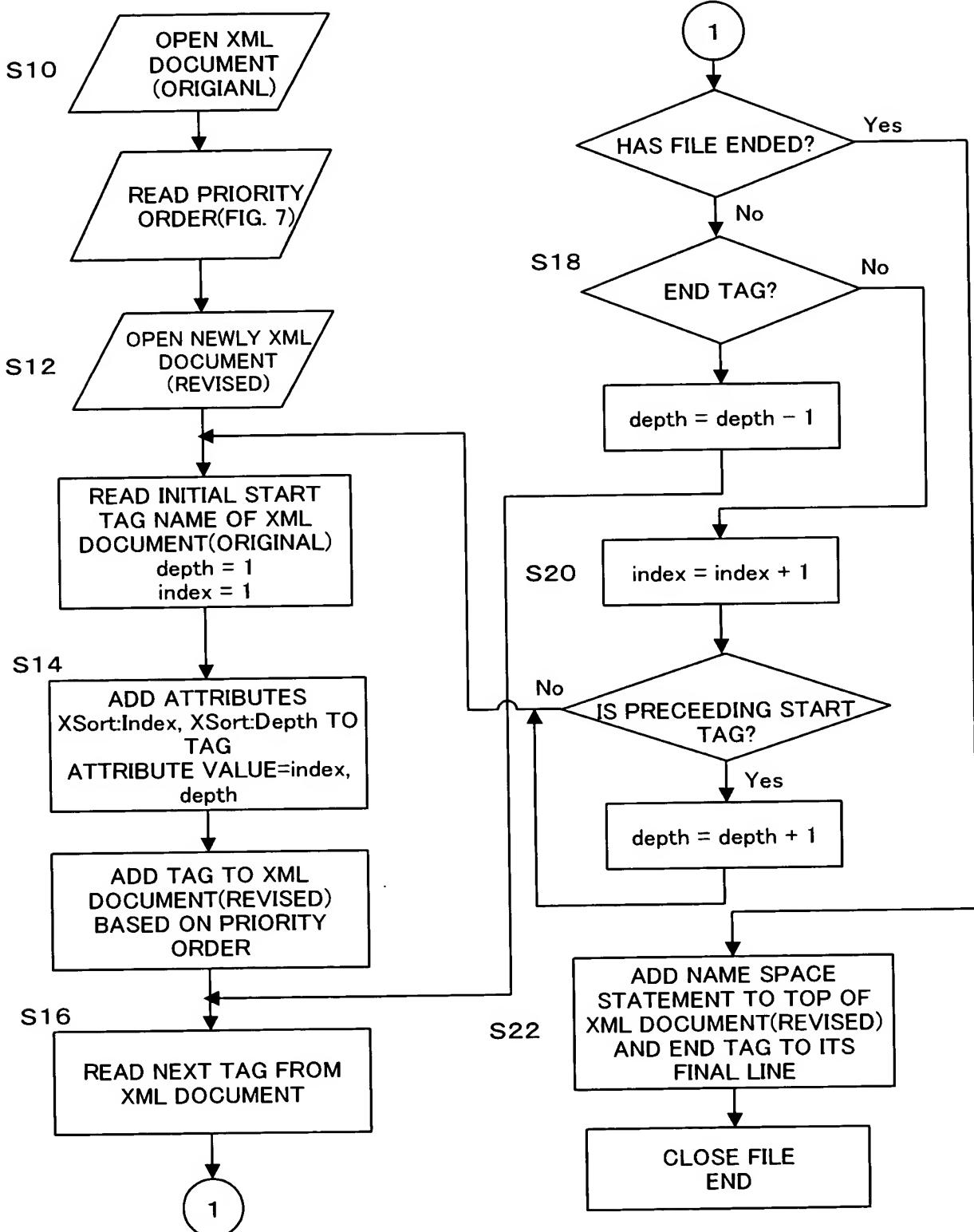


FIG. 3

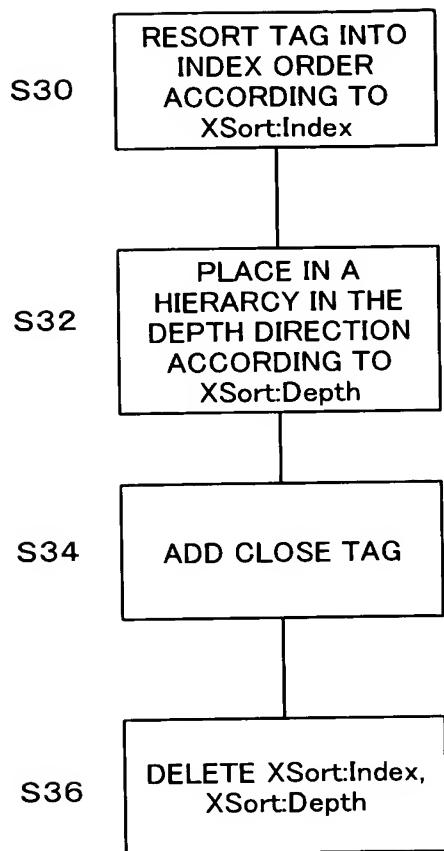


FIG. 4

XML DOCUMENT(ORIGINAL)

```
<TreeTop>
  <PersonalData>
    <Get0/>
    <Get1/>
    <Birthday yy="1921" mm="5" dd="3"/>
    <Remain/>
  </PersonalData>
  <OtherData>
    <Request>
      <PID num="534"/>
    </Request>
  </OtherData>
</TreeTop>
```

FIG. 5

XML DOCUMENT(REVISED)

```
<XSORT:SortedDocument xmlns:XSORT="http://xsort.fujitsu.com/">
  <Birthday yy="1921" mm="5" dd="3" XSort:Index="5"
XSORT:Depth="3"/>
  <PID num="534" XSort:Index="9" XSort:Depth="4"/>
  <Get0 XSort:Index="3" XSort:Depth="3" />
  <Get1 XSort:Index="4" XSort:Depth="3"/>
  <Remain XSort:Index="6" XSort:Depth="3"/>
  <TreeTop XSort:Index="1" XSort:Depth="1"/>
  <PersonalData XSort:Index="2" XSort:Depth="2"/>
  <OtherData XSort:Index="7" XSort:Depth="2"/>
  <Request XSort:Index="8" XSort:Depth="3"/>
</XSORT:SortedDocument>
```

FIG. 6

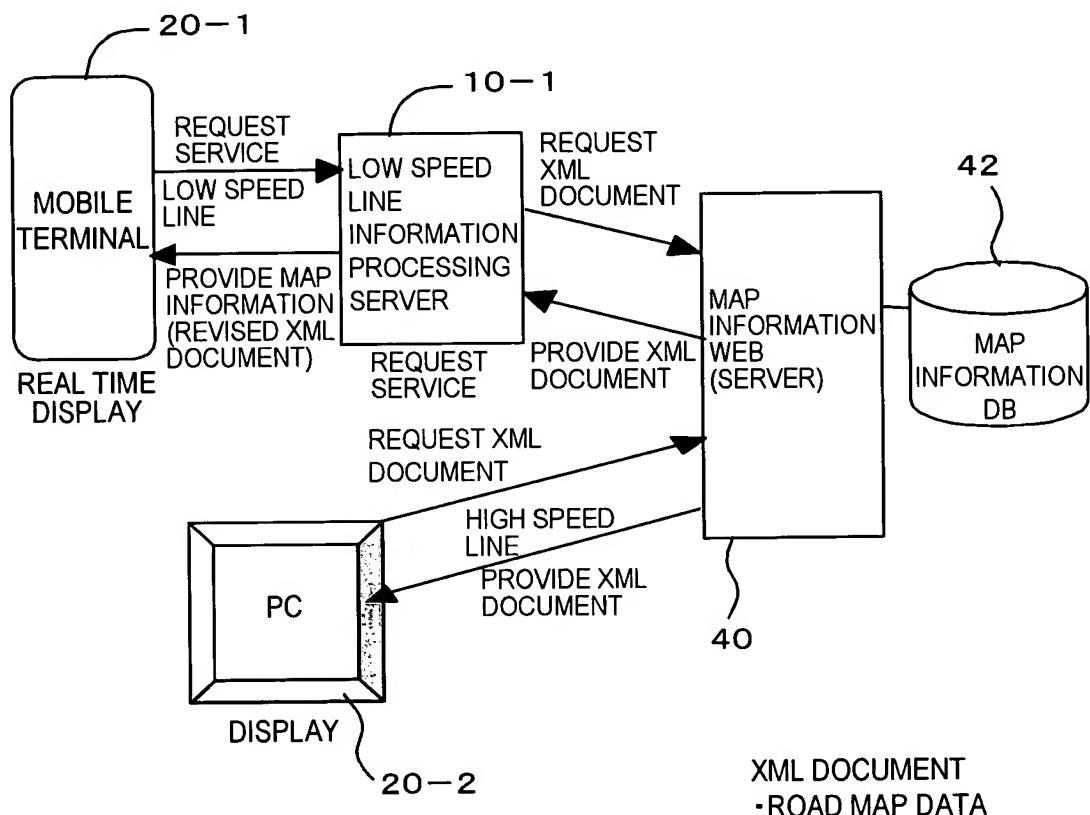
XML DOCUMENT(REVISED)

```
<TreeTop>
  <PersonalData>
    <Get0/>
    <Get1/>
    <Birthday yy="1921" mm="5" dd="3"/>
    <Remain/>
  </PersonalData>
  <OtherData>
    <Request>
      <PID num="534"/>
    </Request>
  </OtherData>
</TreeTop>
```

FIG. 7

PRIORITY ORDER	ELEMENT NAME
1	BirthDay
2	PID
3	Get0 Get1
4	Remain
5	OTHERS

FIG. 8



XML DOCUMENT
-ROAD MAP DATA
-LANDMARK DATA
-TRAFFIC DATA
-ABOVE SEA LEVEL DATA
-TOPOGRAPHY DATA
...etc

FIG. 9

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```
<Map LONGITUDE="E138.52" LATITUDE="N37.33">
  <ROAD MAP>
    <ROAD line="228.4 338.5 339.6 345.6 233.6....."/>
    <ROAD line="110.3 115.6 122.7 185.3 145.6....."/>
    :
  </ROAD MAP>
  <LANDMARK>
    <PUBLIC>
      <FACILITY name="○CITY OFFICE" x="103.4" y="99.2"/>
      <FACILITY name="○FIRE DEPARTMENT" x="121.2" y="223.2"/>
      :
    </PUBLIC>
    <AMUSEMENT>
      <FACILITY name="○BOWLING FACILITY" x="77.6" y="94.8"/>
      <AREA name="○PARK" x="45.1" y="75.4"/>
      :
    </AMUSEMENT>
    :
  </LANDMARK>
  :
</Map>
```

FIG. 10

```
<XSort:SortedDocument xmlns:XSort="http://xsort.fujiitsu.com/">
  <Map LONGITUDE="E138.52" LATITUDE="N37.33" XSort:Index="1" XSort:Depth="1"/>
  <LANDMARK XSort:Index="86" XSort:Depth="2"/>
  <AMUSEMENT XSort:Index="101" XSort:Depth="3"/>
  <FACILITY name="○BOWLING FACILITY" x="77.6" y="94.8" XSort:Index="102" XSort:Depth="4"/>
  <FACILITY name="○PARK" x="45.1" y="75.4" XSort:Index="103" XSort:Depth="4"/>
  :
  <PUBLIC XSort:Index="86" XSort:Depth="3"/>
  <FACILITY name="○CITY OFFICE" x="103.4" y="99.2" XSort:Index="87" XSort:Depth="4"/>
  <FACILITY name="○FIRE DEPARTMENT" x="121.2" y="223.2" XSort:Index="88" XSort:Depth="4"/>
  :
  <ROAD MAP XSort:Index="2" XSort:Depth="2"/>
  <ROAD line="228.4 338.5 339.6 345.6 233.6....." XSort:Index="3" XSort:Depth="3"/>
  <ROAD line="110.3 115.6 122.7 185.3 145.6....." XSort:Index="4" XSort:Depth="3"/>
  :
  </XSort:SortedDocument>
```

FIG. 11

```
<XSort:SortedDocument xmlns:XSort="http://xsort.fujitsu.com/">
<Map LONGITUDE="E138.52" LATITUDE="N37.33" XSort:Index="1" XSort:Depth="1"/>
<ROAD MAP XSort:Index="2" XSort:Depth="2"/>
<ROAD line="228.4 338.5 339.6 345.6 233.6....." XSort:Index="3" XSort:Depth="3"/>
<ROAD line="110.3 115.6 122.7 185.3 145.6....." XSort:Index="4" XSort:Depth="3"/>
:
<LANDMARK XSort:Index="86" XSort:Depth="2"/>
<PUBLIC XSort:Index="86" XSort:Depth="3"/>
<FACILITY name="OCITY OFFICE" x="103.4" y="99.2" XSort:Index="87" XSort:Depth="4"/>
<FACILITY name="OFIRE DEPARTMENT" x="121.2" y="223.2" XSort:Index="88" XSort:Depth="4"/>
:
<AMUSEMENT XSort:Index="101" XSort:Depth="3"/>
<FACILITY name="OBOWLING FACILITY" x="77.6" y="94.8" XSort:Index="102" XSort:Depth="4"/>
<FACILITY name="OPARK" x="45.1" y="75.4" XSort:Index="103" XSort:Depth="4"/>
:
</XSort:SortedDocument>
```

FIG. 12

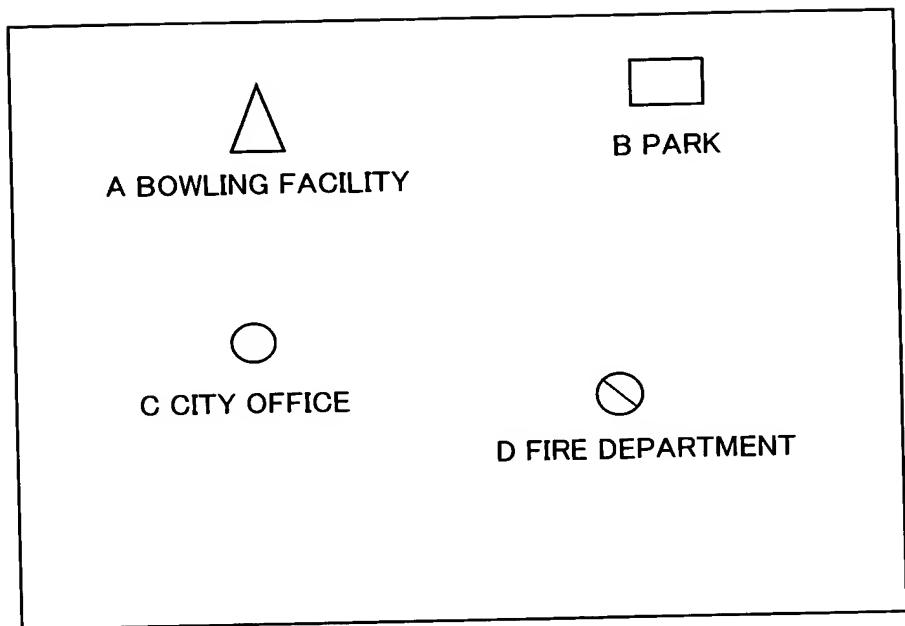


FIG. 13

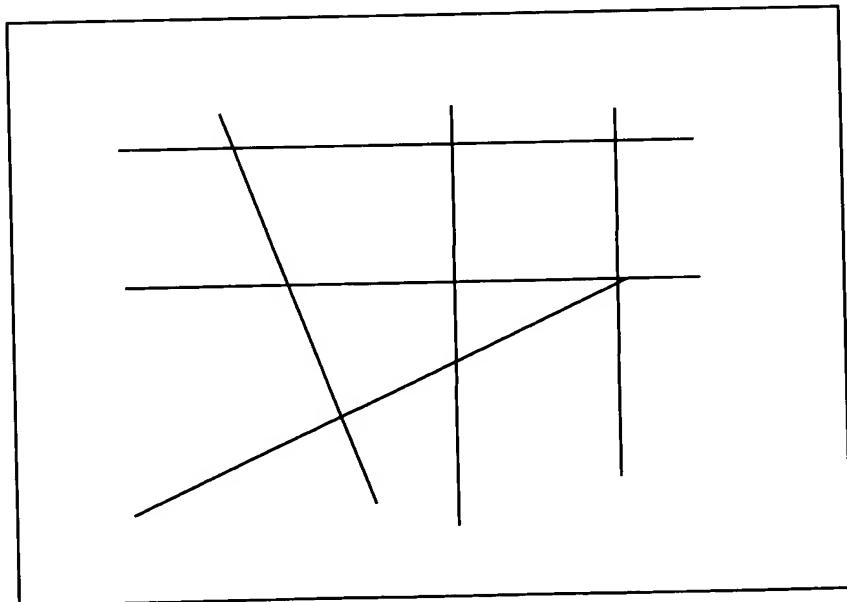


FIG. 14

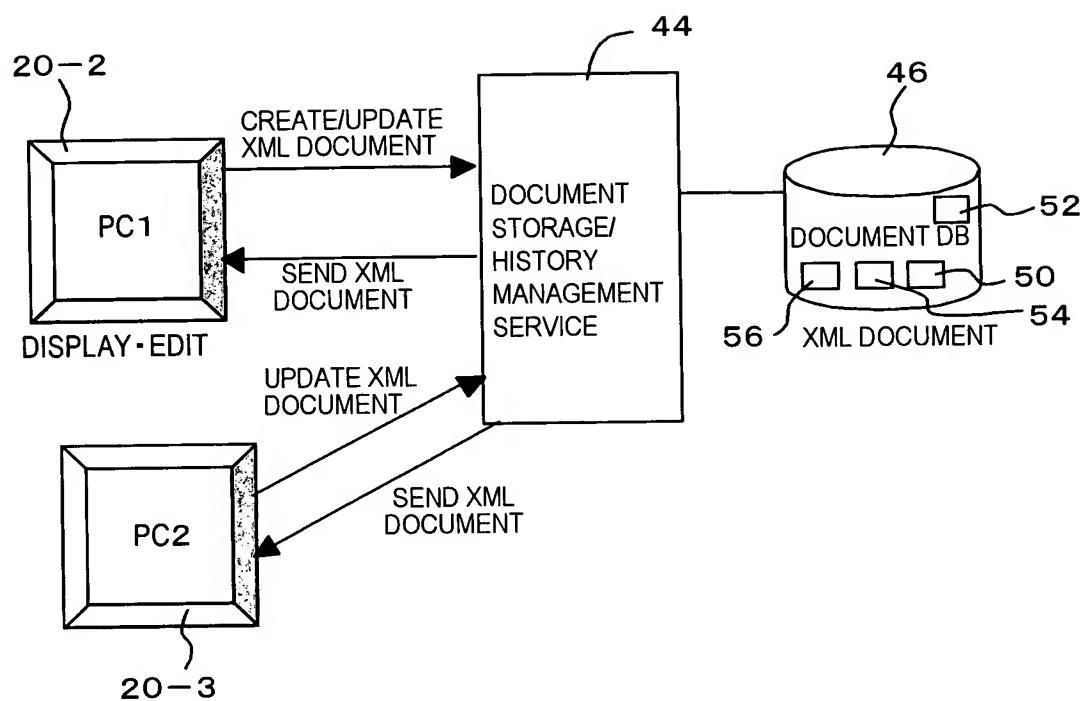


FIG. 15

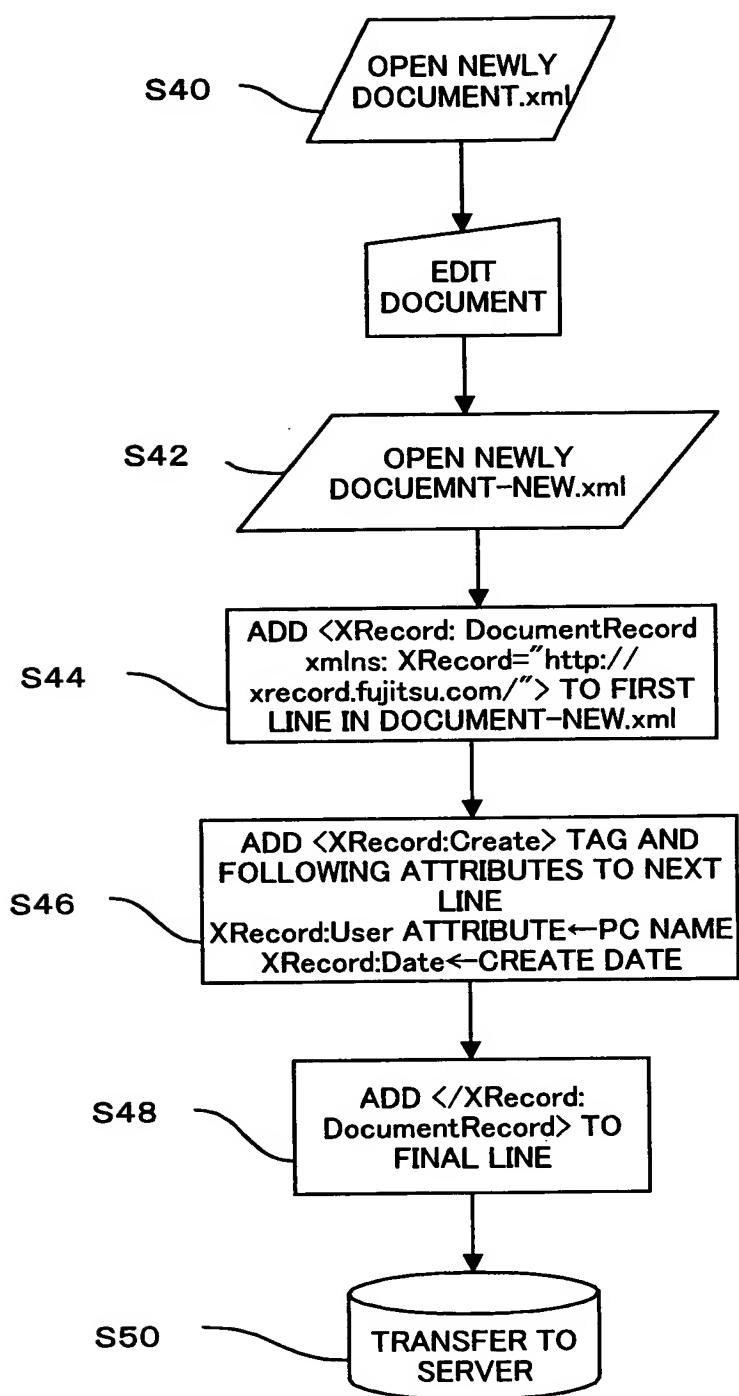


FIG. 16

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```
<Document>
  <Title>ORIGINAL</Title>
  <SubTitle>TITLE 1</SubTitle>
  <Content>
    <Data> Positive </Data>
  </Content>
</ Document>
```

FIG. 17

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```
<XRecord: DocumentRecord xmlns: XRecord ="http://xrecord.fujitsu.com/">
  <XRecord:Create XRecord:User="PC1" XRecord:Date="2001/10/12" />
</XRecord: DocumentRecord>
```

FIG. 18

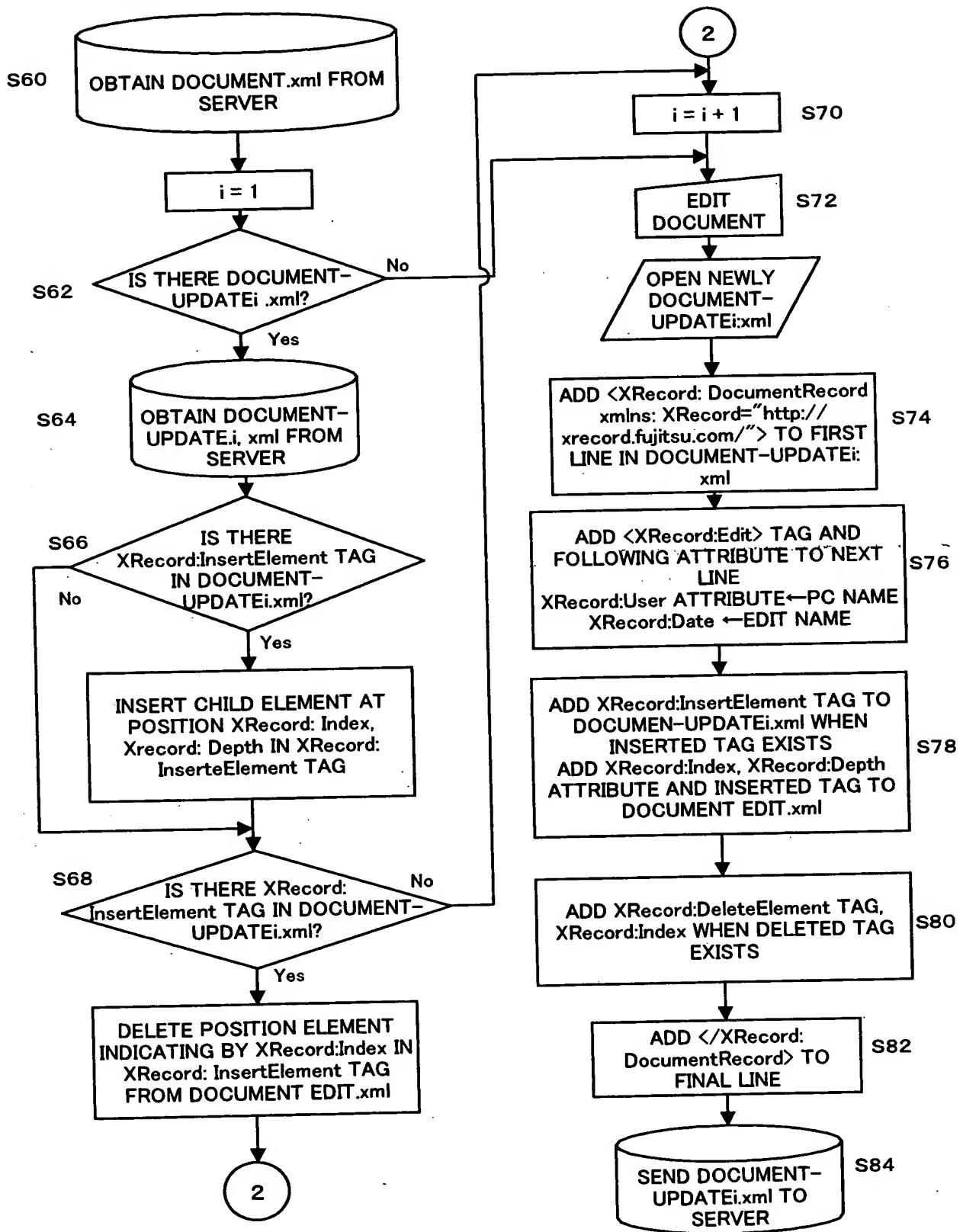


FIG. 19

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```
<XRecord: DocumentRecord xmlns: XRecord ="http://xrecord.fujitsu.com/">
< XRecord:Edit XRecord:User="PC2" XRecord:Date="2001/10/18" />
< XRecord:InsertElement>
<Color Type="Red" XRecord:Index="6" XRecord:Depth="3" />
</XRecord:InsertElement>
</XRecord: DocumentRecord>
```

FIG. 20

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```
<XRecord: DocumentRecord xmlns: XRecord ="http://xrecord.fujitsu.com/">
< XRecord:Edit XRecord:User="PC1" XRecord:Date="2001/10/22" />
< XRecord:DeleteElement XRecord:Index="3">
</XRecord: DocumentRecord>
```

FIG. 21

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```
<Document>
<Title>ORIGINAL</Title>
<Content>
<Data> Positive </Data>
<Color Type="Red"
</Content>
</ Document>
```